

Service Letter Number: 59B

Date: April 2, 2004 (Supersedes Service Letter Number 59A, Dated September 18, 2002, Reprinted May, 2005)

Subject: **Mandatory** Replacement Times for Airborne Air Filters and Air Filter Elements.

Applicability:

All Airborne Air Filters and Air Filter Elements. These air filters and air filter elements which are listed on the next page are typically installed on single-engine and multi-engine piston aircraft equipped with pneumatically driven gyro flight instruments and de-ice systems.

Background:

Air filters and air filter elements clogged with dirt will reduce the flow of air through the air pump resulting in increased air pump operating temperatures that cause higher air pump wear rates resulting in early air pump failure. Dirty filters also affect regulator function and can cause low vacuum/pressure gage indications.

WARNING: Failure of the air pump will result in the loss of the pneumatically powered gyro flight instruments and de-ice system.

Compliance:

Compliance with the following is **mandatory**.

The components listed on the next page **must not** be operated beyond the Airframe Manufacturer's specification for **mandatory** inspection intervals or **mandatory** replacement times or Airborne's **mandatory** inspection intervals or **mandatory** replacement times, whichever comes first.

Replace all Airborne Air Filters and Air Filter Elements at each air pump **mandatory** replacement time (refer to Airborne Service Letter Number 58, **Mandatory** Replacement Times for Airborne Air Pumps), at each aircraft annual inspection, at each air pump failure and at the **mandatory** replacement times specified on the next page.

Any authorized technician can replace the air filter and/or filter element in accordance with the instructions provided by the Airframe Manufacturer in the appropriate maintenance publication. Upon completion of the **mandatory** replacement, ensure an entry has been added in the aircraft's logbook identifying compliance with this Service Letter Number 59B.

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Service Letter Number: 59B (continued)

Pneumatic System Type	Airborne Part Number	Filter Type	Mandatory Replacement Time
Vacuum	B3-5-1 (Note 1)	Garter Filter Element for Vacuum Regulator	100 aircraft hrs. or annually, whichever comes first, and each pump replacement
Vacuum	D9-14-3 (Note 2) D9-14-5 (Note 3) D9-18-1 (Note 4) 1J10-1	Air Filter Element Air Filter Element Air Filter Element Air Filter	500 aircraft hrs. or annually, whichever comes first, and each pump replacement
Pressure	B3-5-1 (Note 1) D9-14-3 (Note 2) D9-14-5 (Note 3) D9-18-1 (Note 4)	Garter Filter Element for Inlet Filter Air Filter Element Air Filter Element Air Filter Element	100 aircraft hrs. or annually, whichever comes first, and each pump replacement
Pressure	1J4-4 (Replaced by 2J4-4) 1J4-6 (Replaced by 2J4-6) 1J4-7 (Replaced by 2J4-7) 2J4-4 2J4-6 2J4-7	Inline Air Filter Inline Air Filter Inline Air Filter Inline Air Filter Inline Air Filter Inline Air Filter	500 aircraft hrs. or annually, whichever comes first, and each pump replacement

(Note 1): The B3-5-1 is used in the 1J1 Air Filter Assembly Series (all dash numbers) and 2H3 Vacuum Regulator Assembly Series (all dash numbers).

(Note 2): The D9-14-3 is used in the 1J2-2 Air Filter Assembly.

(Note 3): The D9-14-5 is used in the 1J2-1, 1J2-3, 1J2-5 and 1J2-6 Air Filter Assemblies.

(Note 4): The D9-18-1 is used in the 1J7-1 and 1J7-2 Air Filter Assemblies.

Any questions concerning this Service Letter or requests for copies of any Airborne Service Letters (can also be printed from Airborne's website) should be directed to Airborne's Customer Support Team as follows:

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